

ANALYTICAL REPORT

PREPARED FOR

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Generated 5/20/2025 7:10:24 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224395-1

Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-224395-1

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Job Narrative 240-224395-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 3.1°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224395-1	TRIP BLANK_90	Water	05/09/25 00:00	05/14/25 08:00
240-224395-2	MW-213S_050925	Water	05/09/25 09:45	05/14/25 08:00
240-224395-3	MW-212S_050925	Water	05/09/25 10:55	05/14/25 08:00
240-224395-4	MW-235_050925	Water	05/09/25 12:05	05/14/25 08:00
240-224395-5	MW-211S_050925	Water	05/09/25 13:10	05/14/25 08:00

Detection Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-224395-1

No Detections.

Client Sample ID: MW-213S_050925

Lab Sample ID: 240-224395-2

No Detections.

Client Sample ID: MW-212S_050925

Lab Sample ID: 240-224395-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	0.54	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-235_050925

Lab Sample ID: 240-224395-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	2.4		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-211S_050925

Lab Sample ID: 240-224395-5

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-224395-1

Date Collected: 05/09/25 00:00

Matrix: Water

Date Received: 05/14/25 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		05/18/25 21:37	1
4-Bromofluorobenzene (Surr)	89		56 - 136		05/18/25 21:37	1
Toluene-d8 (Surr)	94		78 - 122		05/18/25 21:37	1
Dibromofluoromethane (Surr)	101		73 - 120		05/18/25 21:37	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: MW-213S_050925

Lab Sample ID: 240-224395-2

Date Collected: 05/09/25 09:45

Matrix: Water

Date Received: 05/14/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/17/25 00:31	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 21:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 21:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 21:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 21:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					05/18/25 21:55	1
4-Bromofluorobenzene (Surr)	90		56 - 136					05/18/25 21:55	1
Toluene-d8 (Surr)	96		78 - 122					05/18/25 21:55	1
Dibromofluoromethane (Surr)	99		73 - 120					05/18/25 21:55	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: MW-212S_050925

Lab Sample ID: 240-224395-3

Date Collected: 05/09/25 10:55

Matrix: Water

Date Received: 05/14/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/17/25 00:54	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 22:13	1
cis-1,2-Dichloroethene	1.4		1.0	0.46	ug/L			05/18/25 22:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 22:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:13	1
Vinyl chloride	0.54	J	1.0	0.45	ug/L			05/18/25 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					05/18/25 22:13	1
4-Bromofluorobenzene (Surr)	91		56 - 136					05/18/25 22:13	1
Toluene-d8 (Surr)	96		78 - 122					05/18/25 22:13	1
Dibromofluoromethane (Surr)	100		73 - 120					05/18/25 22:13	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: MW-235_050925

Lab Sample ID: 240-224395-4

Date Collected: 05/09/25 12:05

Matrix: Water

Date Received: 05/14/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/17/25 01:18	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 22:31	1
cis-1,2-Dichloroethene	1.9		1.0	0.46	ug/L			05/18/25 22:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 22:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:31	1
Vinyl chloride	2.4		1.0	0.45	ug/L			05/18/25 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					05/18/25 22:31	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/18/25 22:31	1
Toluene-d8 (Surr)	92		78 - 122					05/18/25 22:31	1
Dibromofluoromethane (Surr)	97		73 - 120					05/18/25 22:31	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: MW-211S_050925

Lab Sample ID: 240-224395-5

Date Collected: 05/09/25 13:10

Matrix: Water

Date Received: 05/14/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/25 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 127					05/16/25 17:52	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 22:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 22:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 22:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 22:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					05/18/25 22:49	1
4-Bromofluorobenzene (Surr)	87		56 - 136					05/18/25 22:49	1
Toluene-d8 (Surr)	93		78 - 122					05/18/25 22:49	1
Dibromofluoromethane (Surr)	98		73 - 120					05/18/25 22:49	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-224395-1	TRIP BLANK_90	105	89	94	101
240-224395-2	MW-213S_050925	104	90	96	99
240-224395-3	MW-212S_050925	103	91	96	100
240-224395-4	MW-235_050925	102	86	92	97
240-224395-5	MW-211S_050925	103	87	93	98
240-224395-5 MS	MW-211S-MS_050925	101	101	100	98
240-224395-5 MSD	MW-211S-MSD_050925	99	95	95	99
LCS 240-656451/4	Lab Control Sample	97	100	99	97
MB 240-656451/7	Method Blank	100	90	94	95
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (68-127)			
240-224387-B-2 MS	Matrix Spike	77			
240-224387-B-2 MSD	Matrix Spike Duplicate	78			
240-224395-2	MW-213S_050925	77			
240-224395-3	MW-212S_050925	77			
240-224395-4	MW-235_050925	77			
240-224395-5	MW-211S_050925	82			
240-224395-5 MS	MW-211S-MS_050925	79			
240-224395-5 MSD	MW-211S-MSD_050925	81			
LCS 240-656309/5	Lab Control Sample	81			
LCS 240-656375/2	Lab Control Sample	78			
MB 240-656309/7	Method Blank	79			
MB 240-656375/4	Method Blank	80			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-656451/7

Matrix: Water

Analysis Batch: 656451

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 18:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 18:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 18:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 18:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		05/18/25 18:56	1
4-Bromofluorobenzene (Surr)	90		56 - 136		05/18/25 18:56	1
Toluene-d8 (Surr)	94		78 - 122		05/18/25 18:56	1
Dibromofluoromethane (Surr)	95		73 - 120		05/18/25 18:56	1

Lab Sample ID: LCS 240-656451/4

Matrix: Water

Analysis Batch: 656451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	25.1		ug/L		100	63 - 134
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	77 - 123
Tetrachloroethene	25.0	24.1		ug/L		96	76 - 123
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	75 - 124
Trichloroethene	25.0	24.4		ug/L		97	70 - 122
Vinyl chloride	12.5	10.8		ug/L		86	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-224395-5 MS

Matrix: Water

Analysis Batch: 656451

Client Sample ID: MW-211S-MS_050925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	66 - 128
Tetrachloroethene	1.0	U	25.0	21.8		ug/L		87	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 136
Trichloroethene	1.0	U	25.0	23.0		ug/L		92	61 - 124
Vinyl chloride	1.0	U	12.5	10.1		ug/L		81	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	100		78 - 122

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-224395-5 MS

Matrix: Water

Analysis Batch: 656451

Client Sample ID: MW-211S-MS_050925

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-224395-5 MSD

Matrix: Water

Analysis Batch: 656451

Client Sample ID: MW-211S-MSD_050925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	25.2		ug/L		101	56 - 135	5	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.3		ug/L		97	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	23.8		ug/L		95	62 - 131	9	20
trans-1,2-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	56 - 136	2	15
Trichloroethene	1.0	U	25.0	24.3		ug/L		97	61 - 124	5	15
Vinyl chloride	1.0	U	12.5	9.99		ug/L		80	43 - 157	1	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-656309/7

Matrix: Water

Analysis Batch: 656309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/25 11:37	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	79		68 - 127		05/16/25 11:37	1			

Lab Sample ID: LCS 240-656309/5

Matrix: Water

Analysis Batch: 656309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	8.81		ug/L		88	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		68 - 127

Lab Sample ID: 240-224395-5 MS

Matrix: Water

Analysis Batch: 656309

Client Sample ID: MW-211S-MS_050925

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.63		ug/L		86	20 - 180

Eurofins Cleveland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		68 - 127

Lab Sample ID: 240-224395-5 MSD
Matrix: Water
Analysis Batch: 656309

Client Sample ID: MW-211S-MSD_050925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.48		ug/L		95	20 - 180	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		68 - 127

Lab Sample ID: MB 240-656375/4
Matrix: Water
Analysis Batch: 656375

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/25 22:10	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	80		68 - 127		05/16/25 22:10	1			

Lab Sample ID: LCS 240-656375/2
Matrix: Water
Analysis Batch: 656375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			10.0	8.66		ug/L		87	75 - 121		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		68 - 127

Lab Sample ID: 240-224387-B-2 MS
Matrix: Water
Analysis Batch: 656375

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	1.0	J	10.0	12.4		ug/L		114	20 - 180		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	77		68 - 127

Lab Sample ID: 240-224387-B-2 MSD
Matrix: Water
Analysis Batch: 656375

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	1.0	J	10.0	11.6		ug/L		106	20 - 180	7	20

Eurofins Cleveland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-224387-B-2 MSD
Matrix: Water
Analysis Batch: 656375

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		68 - 127

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

GC/MS VOA

Analysis Batch: 656309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224395-5	MW-211S_050925	Total/NA	Water	8260D SIM	
MB 240-656309/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656309/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224395-5 MS	MW-211S-MS_050925	Total/NA	Water	8260D SIM	
240-224395-5 MSD	MW-211S-MSD_050925	Total/NA	Water	8260D SIM	

Analysis Batch: 656375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224395-2	MW-213S_050925	Total/NA	Water	8260D SIM	
240-224395-3	MW-212S_050925	Total/NA	Water	8260D SIM	
240-224395-4	MW-235_050925	Total/NA	Water	8260D SIM	
MB 240-656375/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656375/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224387-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224387-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 656451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224395-1	TRIP BLANK_90	Total/NA	Water	8260D	
240-224395-2	MW-213S_050925	Total/NA	Water	8260D	
240-224395-3	MW-212S_050925	Total/NA	Water	8260D	
240-224395-4	MW-235_050925	Total/NA	Water	8260D	
240-224395-5	MW-211S_050925	Total/NA	Water	8260D	
MB 240-656451/7	Method Blank	Total/NA	Water	8260D	
LCS 240-656451/4	Lab Control Sample	Total/NA	Water	8260D	
240-224395-5 MS	MW-211S-MS_050925	Total/NA	Water	8260D	
240-224395-5 MSD	MW-211S-MSD_050925	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-224395-1

Date Collected: 05/09/25 00:00

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656451	LEE	EET CLE	05/18/25 21:37

Client Sample ID: MW-213S_050925

Lab Sample ID: 240-224395-2

Date Collected: 05/09/25 09:45

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656451	LEE	EET CLE	05/18/25 21:55
Total/NA	Analysis	8260D SIM		1	656375	R5XG	EET CLE	05/17/25 00:31

Client Sample ID: MW-212S_050925

Lab Sample ID: 240-224395-3

Date Collected: 05/09/25 10:55

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656451	LEE	EET CLE	05/18/25 22:13
Total/NA	Analysis	8260D SIM		1	656375	R5XG	EET CLE	05/17/25 00:54

Client Sample ID: MW-235_050925

Lab Sample ID: 240-224395-4

Date Collected: 05/09/25 12:05

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656451	LEE	EET CLE	05/18/25 22:31
Total/NA	Analysis	8260D SIM		1	656375	R5XG	EET CLE	05/17/25 01:18

Client Sample ID: MW-211S_050925

Lab Sample ID: 240-224395-5

Date Collected: 05/09/25 13:10

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656451	LEE	EET CLE	05/18/25 22:49
Total/NA	Analysis	8260D SIM		1	656309	R5XG	EET CLE	05/16/25 17:52

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224395-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact		Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other										TestAmerica Laboratories, Inc.																																									
Company Name: Arcadis		Client Project Manager: Megan Meckley					Site Contact: Samantha Szpaichler					Lab Contact: Mike DelMonico					COC No:																																				
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240					Telephone: 248-994-2240					Telephone: 330-497-9396					1 of 1 COCs																																				
City/State/Zip: Novi, MI, 48377		Email: megan.meckley@arcadis.com					Analysis Turnaround Time					Analyses										For lab use only																															
Phone: 248-994-2240		Sampler Name: Maxam Hanani					TAT if different from below															Walk-in client																															
Project Name: Ford LTP		Method of Shipment/Carrier:					10 day ☒ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day ☐															No:																															
Project Number: 30251157.401.04		Shipping/Tracking No:					Matrix					Containers & Preservatives					Sample Specific Notes / Special Instructions:																																				
PO # US3460023914		Sample Identification		Sample Date		Sample Time		Air		Aqueous		Sediment		Solid		Other:		H2SO4		HNO3		HCl		NaOH		ZnO		NaOH		Unglues		Other:		Filtered Sample (V / N)		Composite = C / Grab = G		1,1-DCE 8260D		cis-1,2-DCE 8260D		Trans-1,2-DCE 8260D		PCE 8260D		TOE 8260D		Vinyl Chloride 8260D		1,4-Dioxane 8260D SIM		240-224395 COC	
TRIP BLANK_ 90		----		---		1												1														NG		X		X		X		X		X		X		1 Trip Blank							
MW-213S_050925		5/9/25		0945		6												6												NG		X		X		X		X		X		X		3 VOAs for 8260D 3 VOAs for 8260D SIM									
MW-212S_050925		5/9/25		1055		6												6												NG		X		X		X		X		X													
MW-235_050925		5/9/25		1205		6												6												NG		X		X		X		X		X													
MW-211S_050925		5/9/25		1310		6												6												NG		X		X		X		X		X													
MW-211S-MS_050925		5/9/25		1310		6												6												NG		X		X		X		X		X		Run MS/MSD											
MW-211S-MSD_050925		5/9/25		1310		6												6												NG		X		X		X		X		X		Run MS/MSD											
Possible Hazard Identification		☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																									
												☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months																																									
Special Instructions/QC Requirements & Comments: Onsite																																																					
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728																																																					
Level IV Reporting requested.																																																					
Relinquished by: Maxam Hanani		Company: Arcadis		Date/Time: 5/9/25 1430		Received by: Novi Cold Storage		Company: Arcadis		Date/Time: 5/9/25 1430																																											
Relinquished by: [Signature]		Company: Arcadis		Date/Time: 5/12/25 1625		Received by: LQA		Company: EETA		Date/Time: 5/12/25 1630																																											
Relinquished by: [Signature]		Company: EETA		Date/Time: 5/12/25 1630		Received in Laboratory: [Signature]		Company: EC		Date/Time: 5/12/25 800																																											

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility		Cooler unpacked by <u>[Signature]</u>	
Client <u>Arco's</u>	Site Name _____		
Cooler Received on <u>5-14-25</u>	Opened on <u>5-14-25</u>		
FedEx 1 st Grd Exp <u>UPS FAS</u>	Waypoint <u>Client Drop Off</u>	Eurofins Courier	Other _____
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box	Client Cooler	Box _____ Other _____
Packing material used <u>Bubble Wrap</u>	Foam	Plastic Bag	None _____ Other _____
COOLANT <u>Wet Ice</u>	Blue Ice	Dry Ice	Water _____ None _____
1 Cooler temperature upon receipt	☒ See Multiple Cooler Form		
IR GUN # <u>13</u>	(CF <u>70.5°C</u>)	Observed Cooler Temp _____	°C Corrected Cooler Temp _____ °C
2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u>	☒ Yes ☒ No ☐ NA Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC		
-Were the seals on the outside of the cooler(s) signed & dated?	Yes ☒ No ☒ NA		
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes ☒ No ☒ NA		
-Were tamper/custody seals intact and uncompromised?	Yes ☒ No ☒ NA		
3 Shippers' packing slip attached to the cooler(s)?	Yes ☒ No ☒ NA		
4 Did custody papers accompany the sample(s)?	Yes ☒ No ☒ NA		
5 Were the custody papers relinquished & signed in the appropriate place?	Yes ☒ No ☒ NA		
6 Was/were the person(s) who collected the samples clearly identified on the COC?	Yes ☒ No ☒ NA		
7 Did all bottles arrive in good condition (Unbroken)?	Yes ☒ No ☒ NA		
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes ☒ No ☒ NA		
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	Yes ☒ No ☒ NA		
10 Were correct bottle(s) used for the test(s) indicated?	Yes ☒ No ☒ NA		
11 Sufficient quantity received to perform indicated analyses?	Yes ☒ No ☒ NA		
12. Are these work share samples and all listed on the COC?	Yes ☒ No ☒ NA		
If yes, Questions 13-17 have been checked at the originating laboratory			
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes ☒ No ☒ NA pH Strip Lot# HC457151		
14 Were VOAs on the COC?	Yes ☒ No ☒ NA		
15 Were air bubbles > 6 mm in any VOA vials?	Larger than this ☒ Yes ☒ No ☒ NA		
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes ☒ No ☒ NA		
17 Was a LL Hg or Me Hg trip blank present? _____	Yes ☒ No ☒ NA		
Contacted PM _____ Date _____ by _____	via Verbal Voice Mail Other _____		
Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Labeled by:	Labels Verified by:
19 SAMPLE CONDITION			
Sample(s) _____	were received after the recommended holding time had expired		
Sample(s) _____	were received in a broken container		
Sample(s) _____	were received with bubble > 6 mm in diameter (Notify PM)		
20. SAMPLE PRESERVATION			
Sample(s) _____	were further preserved in the laboratory		
Time preserved. _____	Preservative(s) added/Lot number(s). _____		
VOA Sample Preservation - Date/Time VOAs Frozen. _____			

Login #

5/20/2025

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: _____	2.4	2.9	Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	2.6	3.1	Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice- Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

Temperature readings

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_90	240-224395-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-213S_050925	240-224395-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-212S_050925	240-224395-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-235_050925	240-224395-F-4	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-A-5	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-A-5 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-A-5 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-B-5	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-B-5 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-B-5 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-C-5	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-C-5 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-C-5 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-D-5	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-D-5 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-D-5 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-E-5	Voa Vial 40ml - Hydrochloric Acid				
MW-211S_050925	240-224395-E-5 MS	Voa Vial 40ml - Hydrochloric Acid				

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container Preservation</u>		
			<u>pH</u>	<u>Temp</u>	<u>Added Lot Number</u>
MW-211S_050925	240-224395-E-5 MSD	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MW-211S_050925	240-224395-F-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MW-211S_050925	240-224395-F-5 MS	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MW-211S_050925	240-224395-F-5 MSD	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____

DATA VERIFICATION REPORT



May 20, 2025

Megan Meckley
Arcadis
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil

Project number: 30251157.401.04 (vapor 301.04)

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 224395-1

Sample date: 2025-05-09

Report received by CADENA: 2025-05-20

Initial Data Verification completed by CADENA: 2025-05-20

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 224395-1

Analyte	Cas No.	Sample Name: TRIP BLANK_90				MW-213S_050925				MW-212S_050925				MW-235_050925				MW-211S_050925			
		Lab Sample ID: 2402243951				2402243952				2402243953				2402243954				2402243955			
		Sample Date: 5/9/2025				5/9/2025				5/9/2025				5/9/2025				5/9/2025			
		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid	
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																					
OSW-8260D																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.4	1.0	ug/l	---	1.9	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.54	1.0	ug/l	J	2.4	1.0	ug/l	---	ND	1.0	ug/l	---
OSW-8260DSIM																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---